

Claims

- [c1] 1. An arrangement for detecting movement-parameters in a moving object, said parameters comprising acceleration and angular velocity of said object, said arrangement comprising an Inertial Navigation System (INS), comprising at least one gyroscope and accelerometer for measuring an acceleration, angular velocity and effect of attraction of gravity on said object.
- [c2] 2. A system for detecting and analyzing motion data comprising acceleration and angular velocity, the system comprising:
an arrangement for detecting movement-parameters of an equipment, said arrangement comprising:
an Inertial Navigation System (INS), comprising a number of sensors: at least one gyroscope and accelerometer for measuring acceleration and angular velocity and effect of attraction of gravity on said equipment,
a computer unit communicating with said arrangement and comprising processor for processing data received from said arrangement and compensating for said effect of attraction of gravity on said equipment.
- [c3] 3. A golf club comprising an arrangement for detecting

movement-parameters of said golf club, said arrangement comprising an Inertial Navigation System (INS), wherein said arrangement further comprises a number of sensors for measuring a acceleration, angular velocity and effect of attraction of gravity on said golf club.